

December 9, 1951

Dear Lu:

I am wondering whether Boyd's results on the effect of multiplicity of infection on the induction of lysogenesis can be related to lysis inhibition as in T2r<sup>+</sup>. Can you give me a (prompt, please ) answer to the following questions of fact: Could lysis inhibition by multipleinfection be due to viral heterogeneity: i.e., a proportion of particles in T2 which cause slow lysis, whose effect predominates in mixed infections? If you mixedly infect with one T2r, several T2r<sup>+</sup>, do you find slow or rapid lysis?

Your opinion would also be welcomed on the suggestion that (in Boyd's material) the first step in inducing lysogenicity is a lysis inhibition à la T2r<sup>+</sup>.

Sincerely,

Joshua Lederberg